

CO. to EP 707085

PATENT ABSTRACTS OF JAPAN

(11)Publication number :

08-299428

(43)Date of publication of application : 19.11.1996

(51)Int.Cl.

A61L 27/00
C22C 14/00
C22C 30/00

(21)Application number : 07-293730

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(22)Date of filing : 16.10.1995

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(30)Priority

Priority number : 94 323453

Priority date : 14.10.1994

Priority country : US

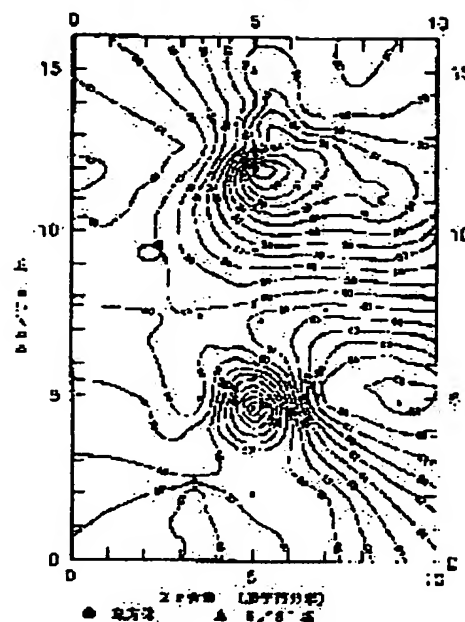
(54) MEDICAL DEVICES MADE OF BIOCOMPATIBLE TITANIUM BASE ALLOYS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide medical devices made of biocompatible titanium base alloys, which are intended to remain on or in a living human being for an extended period of time, such as surgical and medical implants.

SOLUTION: The medical devices are made of quaternary alloys of Ti free from toxic elements such as Al, Ni, Co, Fe, Cr, Mo and W, with between about 2.5% up to 13% Zr, about 20% to about 40% Nb, about 4.5% to about 25% Ta, all percentages being by weight, the balance being Ti and the total of Ta plus Nb being between about 35% and 52% by weight. The ratio of Nb/Ta is between 2 and 13. The relative proportions of Ti, Zr, Ta and Nb are such that the modulus of elasticity is below 65 GPa. These alloys may also contain limited amount of non-toxic interstitial elements, such as C, N and O.

弾性率 (GPa)



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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